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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

<160> 112

<170> PatentIn version 3.2

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 cccacatttc cattttaat atatactgtg ctttacaat attataatat gttttaaat 180
 40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
 tttgaatata tatttagttt ttaattgtg taggaaaatc aaagccagag ggagtagaaa 300
 caaaatttgt gattttctaa atacttctg gctgcaggga agaaaccacg tcccaggcga 360
 45 agtctacct aattgatga taaaattaca tggaagggat tctgttggc atgaggacct 420

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438

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 15 aaagggggaa ggccccaaa accggggggg gggnaaaaag gtgggttcc cccttttcc 180
 aattccaaa accaatttc aaaaggnaaa ccaacnttc caaaatggg aaagg 235

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 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccg ggaaaggccc 180

aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240

gggggggtcc ccttgggcn ttttccttt tgggtnaaaa aaaaaaaccc ctg 294

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15

ctgtacttga actctaaaac tgttgagaa actcagtgt taccccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

20

attccttggg cctaggaacc ctcatcacc tcacccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttgatt 360

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 tttagcggcg accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180
 45 gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

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 tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt 120
 15 gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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 ataatggaag atagctntga ggatnaacnc tggtnaggg 100

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 15 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gccccttgg ggaaaanaag 180
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 30 ggaagaattg tatgtgggag ttttaatgg tctcattca ttggctataa ctcaattaca 180
 aggagaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240
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40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg 180
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ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420

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acgagccggg ctggagcggg gggaaaagca aatgtaggca taagtaacga caatgcgggc 120

45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc 240
 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
 5 tgggcgccag caggggcggc ctccgggcca aaccgaacct caggtcanac ttccaagaaa 360
 agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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gctggaaggc ttgnaggga gaaaaggat cgcctttgg gaggaacca ggtaaggtt 120
aagaaggaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttentcccc 180
20 ccaaaaaaaaa aatttttaaa aaaaatttt ngccccggg ggcattggg g 231

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 tgnatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnaccttnc 180
 cantnnnctg gggncaccacn nnnngngaact gagagtggat ctgtgtacc tgacnnacca 240
 20 gntntnnagn agggcgctca ctctgattgg tgcacatgg ttacacagtg tgtgcaaaga 300
 ccngnctatc tactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360
 25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnata 420
 aggttacnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480
 nctntcnct ataggcatga ttttnncag tgcgtcagcc ttganaanga ancnnacttt 540
 30 tgntagatga nnnngtgc ccccttgngg ctacaaaatt ccancacctt tgggtggcngc 600
 agccnttaag ancactntt ttgggtgcg cnttgatg aattacnaat agnntgttt 660
 35 gttncaggc ccttctgna aatatgaana aaagngcnct tagcttttg ngggaactgn 720
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caagtacgcn agcnctgaan ctaaagcaag caagaaaaag 100

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<213> Human

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatagc tgggtgcca 180

gaagagtctt agttcattta ttggcccag aacctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atctgcact 480

gacaattaac tgcccataa tctacaatcc aacct 515

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<211> 176

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 cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120
 40 agcctgcct cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

<210> 56
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<220>

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<223> n is a, c, g, or t

<400> 56

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atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120

ggatttgggg ttagaggta caattgcctt ttatggta gagaaaggc ctggggctgg 180

15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300

20 acattgttat tgcatt 317

<210> 57

<211> 209

<212> DNA

25 <213> Human

<400> 57

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aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180

35 taattgggag tgggggctga aacaattcg 209

<210> 58

<211> 262

<212> DNA

40 <213> Human

<400> 58

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45 acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180
 agttgcttgg cccaaggaag gaggggtgta tggctgatca cactggtccg cctgggtgac 240
 5 agagcgagac tccatctcta at 262

 <210> 59
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 10 <212> DNA
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 <400> 59
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 cccggggggag gggatatccgg ttataaacc ccaagggtat ttcttagca aaatacttaa 180
 20 aaccggccgg ggttttata caaactggga acccactttt gaaaaattt ggcctttga 240
 tctgggatgg gaatatgagt ttatatcat ttcatcttct tttgggcaa aggcccgtt 300
 aagtattccc cccggggggg cctttacaaa aagggcgggt taaaagctt ttgggcccc 360
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 tgattccgaa tcaccacag acagctcgat caccatacgt atcacccaac atatatact 240
 45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtagcattg aatacaataa agatggcctc gtagcagtgg 300

20 agaaaagaag aattatttca taaaccttgg tggaatggct aggcaatcat ctggaaaaaa 360

atgaagtga ataataaaaa tatattctac actagcacia attataaata aagcagtgat 420

ttaaagaga aaaattaaat cataatgatt tcaaagataa cataggataa ttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40 tgggcatttt tatgtgttaa atatagaatg accaatgcct ctagaacaaa ctgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttctta ctattttaa 300

45 ttgttaaaa ttgatattat gatataaaa acttcttttg ccagtgttgg tggcacacgc 360

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agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540

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cagaccaaac t 611

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<210> 63

<211> 291

<212> DNA

15 <213> Human

<400> 63

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20 taatgcgaat atacttcctc ttcttttgc atggctctgc ccagcctctg caatactgat 120

gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgctc ttgctgcccc 180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 240

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30 <211> 309

<212> DNA

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cattatcacc tctactctc gcgtgttacc taactctccc tcgcagggga aatcactcca 120

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40 aggcacattg ttctctatg ccccgctacg ctttgccta gagctcggcg gtatctatat 240

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45 ctgattaga 309

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 <212> DNA
 5 <213> Human

 <400> 65
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 10 tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120
 agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
 15 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

 <210> 66
 20 <211> 142
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 <213> Human

 <400> 66
 25 agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt 60
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 atagctagta aactccccct gt 142
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 40 aaagatgatc tctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca tttccttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

 <400> 68
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 10 tagaagtcac tatatttata taaaacatgt ggattagata tttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179
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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
 ttttgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

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 45 <212> DNA
 <213> Human

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 5 <222> (26)..(26)
 <223> n is a, c, g, or t

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 10 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 20 tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca 420
 atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat 480
 25 g 481

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 15 ngacgcgccg tacaggntna attatggan cttacatggn aaaggggcan ctcaatgtcc 120

 cacag 125

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 35
 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180

 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240

 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300

 ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga 360

 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
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 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
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 5 <212> DNA
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 aatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120
 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
 gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300
 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420
 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 40 atgagatgaa atgatgaaat 500

<210> 74
 45 <211> 299
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<213> Human

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<223> n is a, c, g, or t

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10 <221> misc_feature
<222> (57)..(57)
<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120
cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180
20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240
aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25 <210> 75
<211> 155
<212> DNA
<213> Human

30 <400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120
35 tgagatgaca tgaataatg aaacgaaatt gaaat 155

40 <210> 76
<211> 367
<212> DNA
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cgccatgaaa ttctgctcg attagcttac gttgttggga tagaggccaa acaaggctgt 180

45 tatcggtagc aggaatggat gttcgatttc gtagaatacg cctgagagac ggccaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgttg gggtttattt taaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattacaaa atattggac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccgttaa atagccgtta aatgtttta cccatttcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtgggtgtg atgccctgtc ttttcctc 300
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 35 ccttgatgtt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca 120

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 ggaaaaanaa tccttttaa anggaantcc aagggaagga ncctgnncaa nactcccn 180
 30 ccaataaaaa aaacntttt ggaaangggg aaa 213

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 25 gacctctgaa tgtattantg anncaagtga tagccaagat atttgaaga aaaatagata 120
 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag 180
 taaggatatt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgaggga caatatatgg ttctgggata attattata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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15 aggaaggaag gaagg 135

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aacttctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag 180
35 agggtttatt cttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240

aaccacagct agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc 300

40 taaaactttc ttgaacccc ctggcatagg ctgagttcc ctgact 346

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<400> 85

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5 gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

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10 <212> DNA

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tcttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagtaa 240

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gtcgagtccc tcttctctc ttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

40 ttcttctaag cgtagcgcgt ctactccaat gtttcgtta atccagccc aactaacgcc 420

gcggaggagt cgatccgtct actcctatcc cgtcggtcgc gatttactac aggagctaag 480

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 acagccaaac cggtcgccc aaggcctccg tcgtttata atatattccg ttacgtata 180
 aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctcttctcc attcgcaaca 240
 15 gttctattcc tttagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300
 gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaatt cgaagtttat 360
 20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420
 tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt ctctctatct 480
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 aattaaggna aggnntaaaa aatttaacca angggggggtt taaagggnnt tttttttta 180

 aaaaaaaagg taaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240
 45 ctaaccccc ggggttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa 300

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332

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cgggtggaac tattaaaaca taagttaaat cggattttaa aattttaaaa tcaaaaaaaaa 120

15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180

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40 atgggnaant tnnnnngggg ggggggaaaa ancccnnggg tnannggggg ccnngggntt 180
naaannggn nctngggggg ggaaantttt ggccccccc cgggggnttt ncctnaaaaa 240
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ccntnnanc ntgggnnttt ttagncttn aaaaaaangc naatnttaag gtaaaaattn 420

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 ntnnancnctc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
 30 ttttctctta tntgnngncn naacatctgc nngctctgnt annaanaatt ncataccgcn 240

 canngtctnt gacgntgtga tgcatacgnt tgggcagagn gancaatang tgngcatatg 300

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 atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180
 40 tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240

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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
 30 tgaaatgaaa tgagattaaa tgatgagatg aaaactgatg aaaacttaaa tgatgaaata 240
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gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

30 aatgacctaa tgaaatgaaa aatgaaatg aaataatgaa atgaggtgaa attaaatgag 240

atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

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ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420

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 30 ngaggaagac cc 132

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggt 180
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